

West Acton Combined Sewer Extension Project - Cost Estimate Summary Updated 3/1/2019					
			Without Schools	With Gates Only	With Twin School at Gates Site
Item	Unit Cost	Quantity	Subtotal Cost	Subtotal Cost	Subtotal Cost
Sewer	\$375	11,636	\$4,363,500	\$4,363,500	\$4,363,500
FM	\$200	5,375	\$1,075,000	\$1,075,000	\$1,075,000
Low Pressure	\$175	2,550	\$446,250	\$446,250	\$446,250
Pump Stations	\$1,000,000	2	\$2,000,000	\$2,000,000	\$2,000,000
Crossings - RR	\$100,000	1	\$100,000	\$100,000	\$100,000
Crossings - Streams	\$50,000	3	\$150,000	\$150,000	\$150,000
Grinder Pumps	\$7,500	16	\$120,000	\$120,000	\$120,000
Owner's Contingency Allowance for Materials Escalation Price Adjustment	\$100,000	1	\$100,000	\$100,000	\$100,000
<b>Construction Cost</b>			<b>\$8,350,000</b>	<b>\$8,350,000</b>	<b>\$8,350,000</b>
Construction Contingency	10%		\$850,000	\$850,000	\$850,000
Construction Svcs	15%		\$1,200,000	\$1,200,000	\$1,200,000
Police Details	9%		\$750,000	\$750,000	\$750,000
<b>SRF Eligible Costs</b>			<b>\$11,150,000</b>	<b>\$11,150,000</b>	<b>\$11,150,000</b>
Design/Prelim Design			\$1,100,000	\$1,100,000	\$1,100,000
Easements / Utility Fees			\$200,000	\$200,000	\$200,000
<b>Total Cost Design/Construction</b>			<b>\$12,450,000</b>	<b>\$12,450,000</b>	<b>\$12,450,000</b>
WWTF Capacity Purchase			\$500,000 - \$1,000,000	\$500,000 - \$1,000,000	\$500,000 - \$1,000,000
<b>Total Project Cost</b>			<b>\$12,000,000 - \$14,000,000</b>	<b>\$12,000,000 - \$14,000,000</b>	<b>\$12,000,000 - \$14,000,000</b>

Town's General Benefit			
- Paving (primary streets)	\$500,000 - \$1,000,000	\$500,000 - \$1,000,000	\$500,000 - \$1,000,000
- Police Details (primary streets)	\$400,000 - \$800,000	\$400,000 - \$800,000	\$400,000 - \$800,000
Future Capacity General Benefit <sup>2</sup>	\$500,000 - \$700,000	\$500,000 - \$700,000	\$500,000 - \$700,000
School Costs <sup>1</sup>	\$0	\$500,000 - \$1,500,000	\$1,000,000 - \$2,500,000
Town's Avoided Costs <sup>3</sup>	\$100,000 - \$150,000	\$100,000 - \$150,000	\$100,000 - \$150,000
Housing Authority Avoided Costs	\$0	\$0	\$0
<b>Total General Benefit</b>	<b>\$1,500,000 - \$2,500,000</b>	<b>\$2,00,000 - \$3,000,000</b>	<b>\$3,00,000 - \$4,000,000</b>

Residential & Non-Residential Specific Benefit			
	\$10,500,000 - \$11,500,000	\$10,000,000 - \$11,000,000	\$9,000,000 - \$10,000,000

SBU Range	300 -350	300 -350	300 -350
<b>Estimated Betterments</b>	<b>\$31,000- \$38,000</b>	<b>\$29,000 - \$35,000</b>	<b>\$27,500 - \$32,500</b>
Monthly Equivalent Payment over 30 years @ 5%	\$185	\$170	\$160

1 11/13/2017 Presentation: Currently 829 students at Gates and Douglas. Need 450 to 500 student capacity per school. Assumed 950 student capacity. With cafeterias, Title 5 requires minimum of 8 gpd per person/individual for Elementary School without gym/showers, 10 gpd with gym/showers. Assumed 950 students, 45 teachers, 15 other = 1,010 persons.

06/14/2018 Meeting: The design flow for the current septic systems at the schools is 17,810 GPD. At 300 GPD per SBU, the schools have a total of 59.37 SBUs.

2 Based on proportion from Middle Fort Pond Brook Sewer Project: (\$1,166,200 / \$25,133,050)

3 Based on 4 publically owned properties with individual septic systems on each property assuming \$30,000 per septic system.

4 Based on \$6,000,000 WWTF construction cost prorated by the estimated Title 5 Flow (double water use) divided by the design capacity of the plant. The plant is currently permitted to discharge 299,000 gpd.

Town/State Avoided Cost Properties
Post Office (241 Arlington St)
Fire Station (258 Central St)